DRILLING LOG	Page 1 of 3
StateElyria, Ohio	Start Date September 15, 1981
Site Chemical Recovery Systems, Inc.	Completion Date September 15, 1981
Boring No. W-3	Ground E1. 708.42
Drilling Firm H.C. Nutting Co.	Groundwater El. at completion 698.42
Type of Drill CME 750	-
Driller J. Martin	after 1 day 697.35
Geologist Rod Bloese / Ron St. John	Total Depth of Boring 34.0

P1	D44	Describing	Blow	Sample		Well
Elev.	Depth	Description	Count	No.	Remarks	Const.
		y				
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	_	-			,	
<u> </u>				·		
		•				
	,—	Ground Surface				
708.42						•
	r	01-01		;		
	2 -	Sandy Clay and Gravel (fill)				
	4					
	3 ~	1				
704.92						
	4					
703.92		Weathered Sandstone				
-	5	Sandstone - light gray, poor to				
-		moderately indurated, very fine				
	6	grained, very well sorted, well rounded, silica cement, highly				
	₇ -	permeable, arenitic with trace				
4	' —	muscovite and ferromagnesic				
1	8 -	minerals. Fractures one to four				
1		inches apart, iron staining pre-				
	9 -	valent at top and decreasing w/				
ļ		depth. Fractures at top contain			Fraction Fill intil	
		silty clay fill material, in him			fracture fill indicate down Fracture migrat	3
		cartings down tracture migration		ļ	JAAN J. M. M. M. M. W. J. W. W. J. W. J. W. W. W. J. W.	r. ~
2/12/8	01	n at 15 m	e de ai Mi			
2/12/	U.Z		Amen's			
		p. C.	U			

State	Elyria, Ohio	Boring	No.	W-:	3
Site _	Chemical Recovery Systems, Inc.	Page _	2	of::- 3	

			Blow .	Sample		Well
Elev.	Depth	Description	Count	No.	Remarks	Const.
697.42	11_					
	12	Same without fractures and staining				
	13_	Staining				
	14	, , , , , , , , , , , , , , , , , , ,				
	15_					
	16					`
• 4	17	 ,				
	18					
	19 20	<u></u>				
	20					
686.42		•				
	25	Same with fractures four inches to one foot apart containing hematite and limonite. Organic inclusions are present, as are coal forming with pyrite				
680.42	-					
	_	Same with organic inclusions and no fracturing				

State Elyria, Ohio	Boring No. W-3
Site Chemical Recovery Systems, Inc.	Page3 of3

	. • ·					_
			Blow	Sample		Well
Elev.	Depth	Description	Count	No.	Remarks	Const.
	31	Same with organic inclusions		•		1
		and no fracturing		,		
	32_	_				
	33		1	}		
	33_					
674.42	34 ¯		1			
		End of boring				
ļ	35					
	-	•				
		Well specifications				
		- 26.2' of galvanized pipe				
	4	- 10.0' of well screen (stain - bentonite seal at bedrock	nless st	eel) I		
		- grout from bentonite to sur		ŀ		
]		- stick-up = 1.89'				
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			1			
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DRILLING LOG _	Page <u>1</u> of <u>3</u>
StateElyria, Ohio	Start Date September 15, 1981
Site Chemical Recovery Systems, Inc.	Completion Date September 15, 1981
Boring No. W-4	Ground E1. 707.90
Drilling Firm H.C. Nutting Co.	Groundwater El. at completion 697.90
Type of Drill CME 750	after 1 day 696.29
Driller J. Martin	Total Depth of Boring 33.5
Geologist Rod Bloese / Ron St. John	

				1	 	77 77
Elev.	Depth	Description	Blow Count	Sample No.	Remark s	Well Const.
Brev.	Deptil	Description	Count	10.	Nemat Ke	COMBC.
1 : 1	-					
!!				Ì		
] ; [:	
					•	
1	_)		
707.00	_	Ground Surface				
707.90						
	, -	Sandy Clay and Gravel (fill)				
1	-	Gray				
	2 -	•			_	
		-				
1 1	3					
	4					
703.60						
703.00	5 ~	Sandstone - light gray, poor to				
		moderately indurated, very fine				
	6 7	grained, very well sorted, well				
		rounded, silica cement, highly				
1	7_	permeable, arenitic with trace				
		muscovita and ferromagnesic				
	8	minerals. Fracturing one to four inches apart and filled				
	- و	with silty clay and iron stain-				
	<i>'</i>	ing. Lind in a The flown fracture		}	fracture Fill indica	4-5
		THE REPORT OF THE PARTY OF THE			fracture fill induced down fracture nigra	hi -

2/12/82

not for description perhaps remarks

State Elyria, Ohio Boring No. W-4

Site Chemical Recovery Systems, Inc. Page 2 of 3

Elev.	Depth	Description	Blow Count	Sample No.	Remarks	Well Const.
696.90		Same		, — <u> </u>		
	12	Same with fracture four inches to one foot apart and with less				
693.90	13 14	filling				
	15	Same with fractures four to six inches apart and containing		5		
	16 17	hematite, limonite, muscovite and organics				
689.40	18					
	19 20	Same with few fractures and	· • - · ·			
:		little staining				<u> </u>
	-					
				;		
ļ	-	•]
	-					

State Elyria, Ohio	Boring No	W-4
Site Chemical Recovery Systems, Inc.	Page 3 c	of3

-		·				
Elev.	Depth	Description ·	Blow Count	Sample No.	Remarks	Well Const.
Bievi	31	Same with few fractures but abundant iron staining	Count	10.	Remarks	Jones.
674.4	33 34	End of boring			-	
	35					;
		Well specifications - 26.5' of galvanized pipe - 10.0' of well screen (stain - bentonite seal at bedrock s				:
-	111	- grout from bentonite to sur - stick-up = 3.0'				
	-	•			•	
	-					